

Shri Ramdeobaba College of Engineering and Management, Nagpur

Group Project

Fundamentals of Data Analytics

Group:

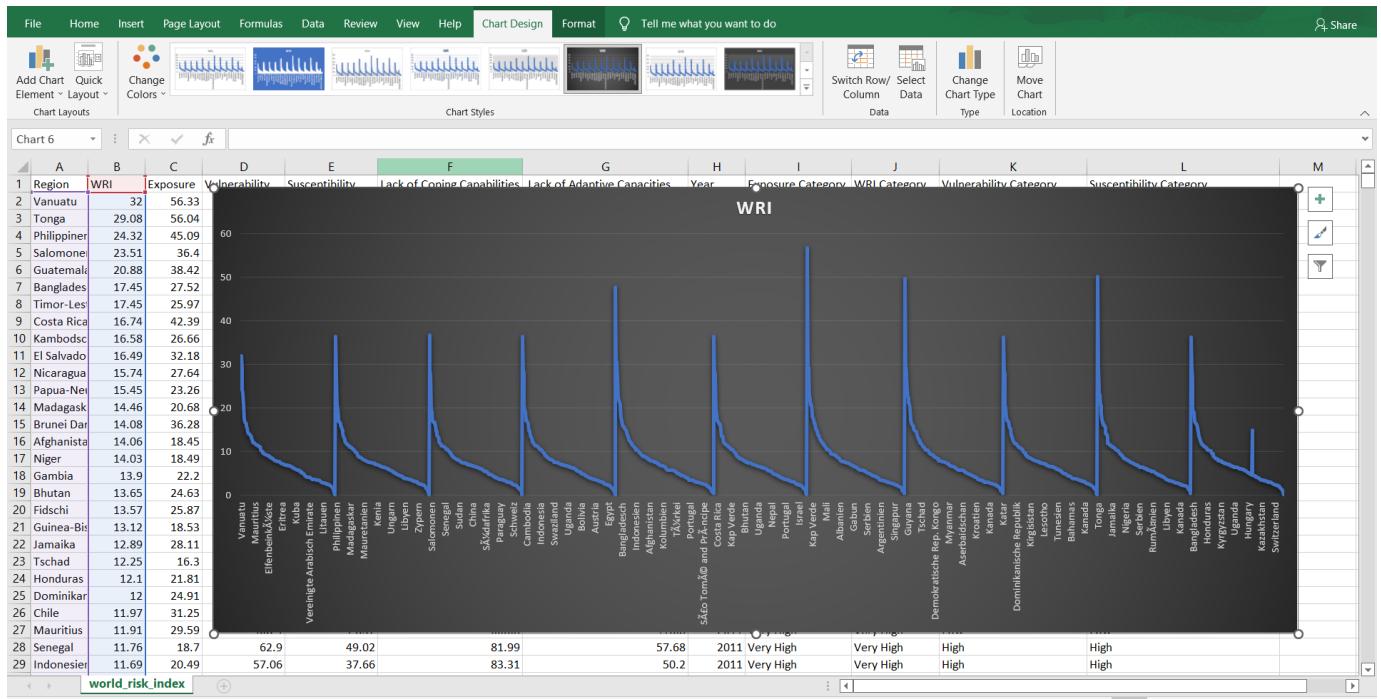
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Mansi Prashant Sawarkar	9
Aadarsh Ajaykumar Sinha	21

Department: Electrical

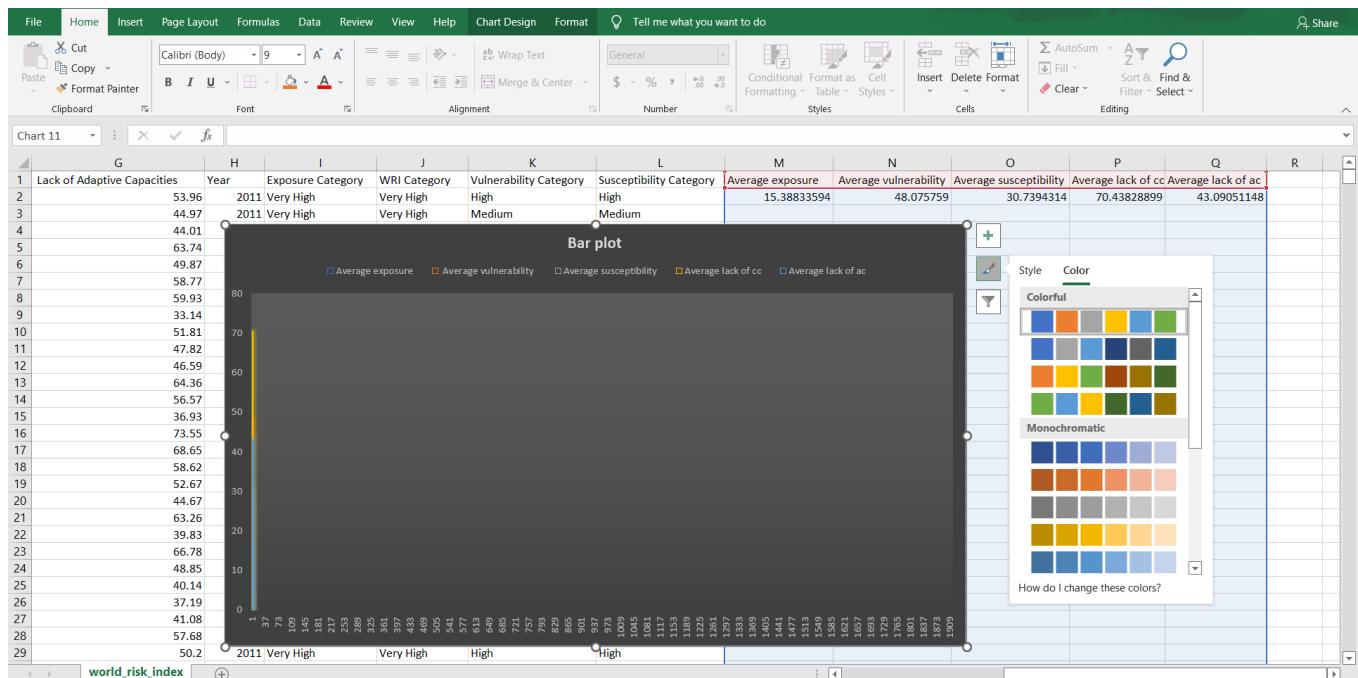
Business Question: how can businesses effectively utilize the global disaster risk index time series dataset from Kaggle to make their risk management strategies across different regions/sector and minimize potential losses due to disasters?

Project Description: World-risk-index dataset comprises of region, WRI, exposure, vulnerability, susceptibility, lack of coping capabilities, lack of adaptive capacities, year, lack of exposure category, WRI category, vulnerability category, susceptibility category etc. we studied the world disaster risk data by applying built-in formulas from MS excel to compute basic statistical analysis and visualization.

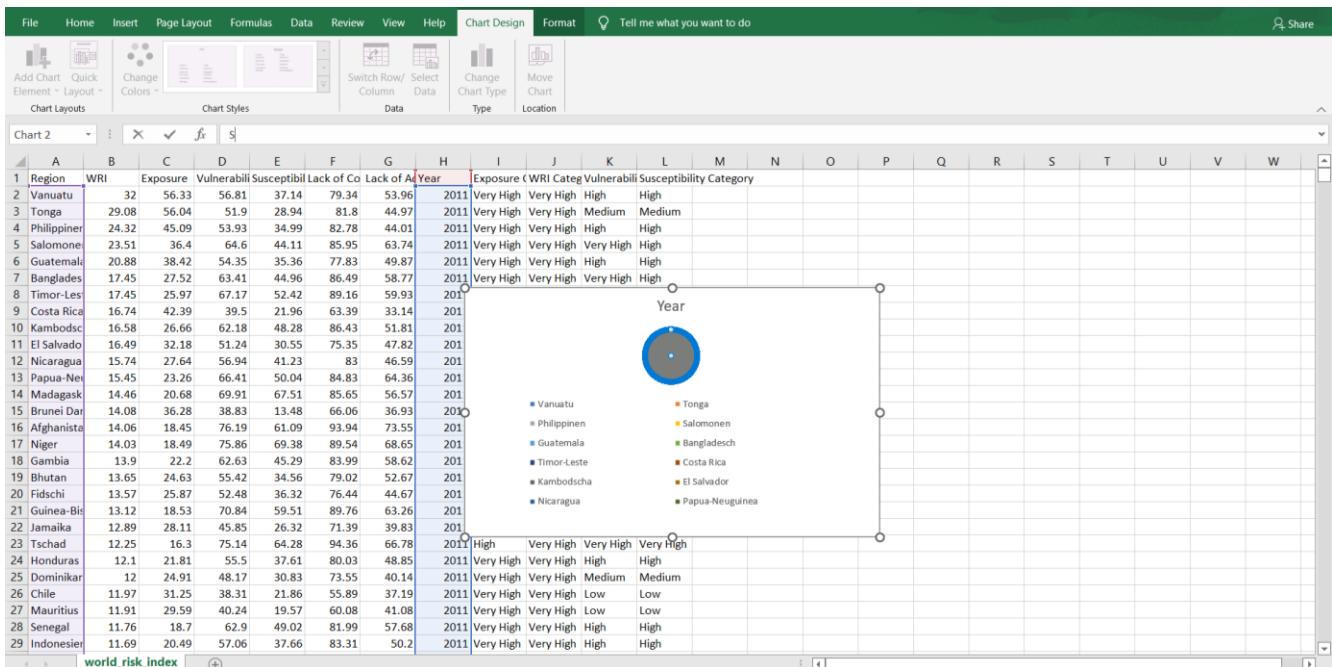
1. Choose a specific region and plot the WRI for each year as line graph



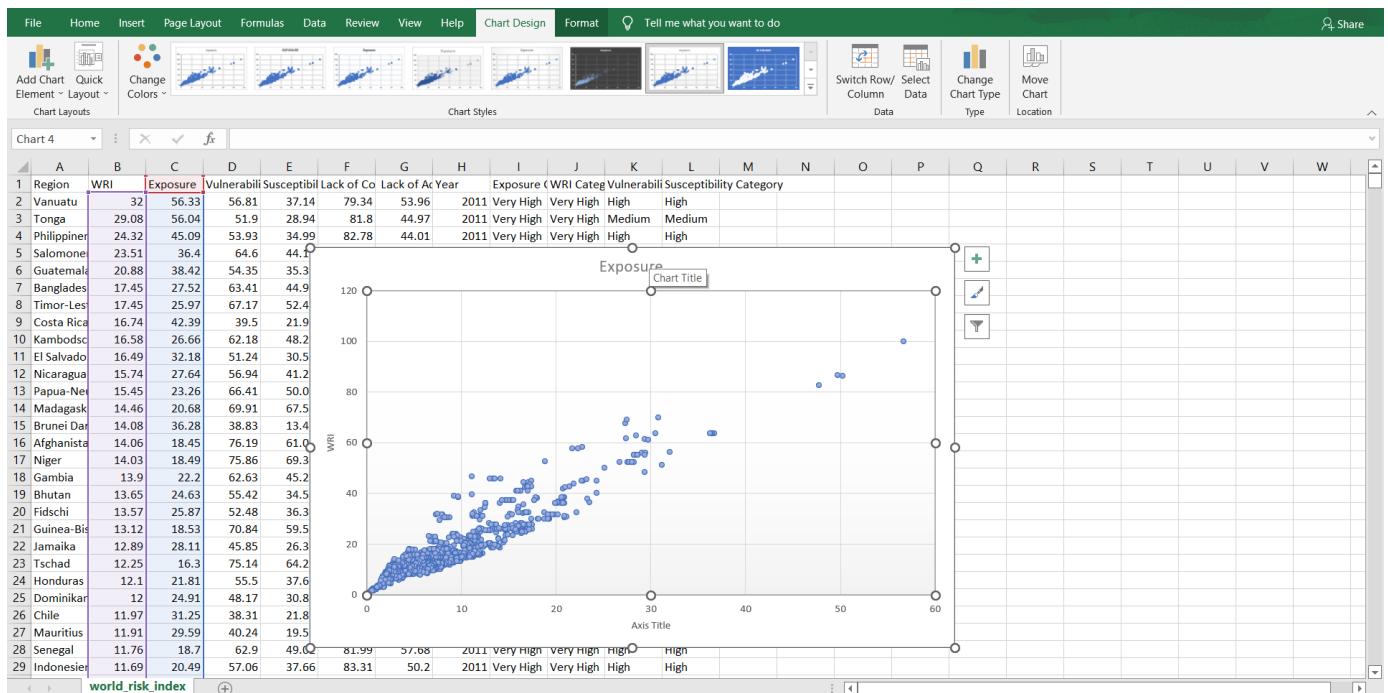
2. Plot a bar graph with average Exposure, average vulnerability, average susceptibility, average lack of coping capabilities and average lack of adaptive capacities for five countries of your choice.

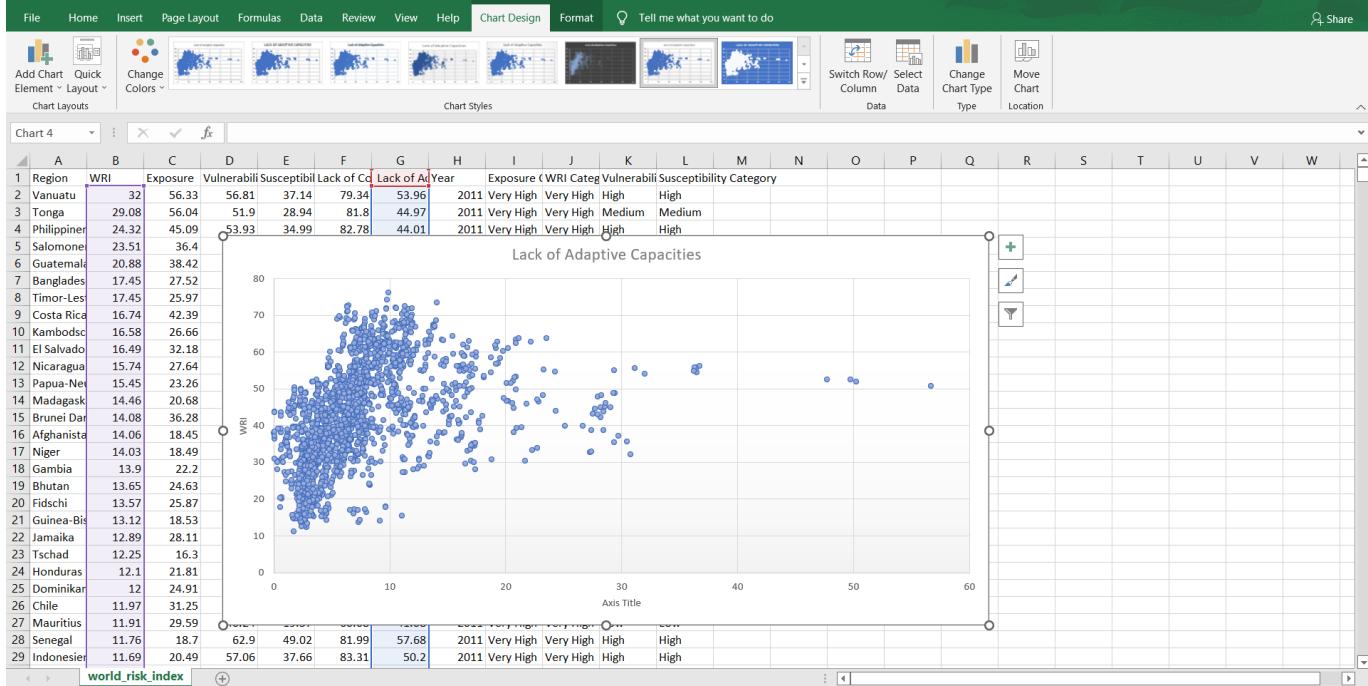
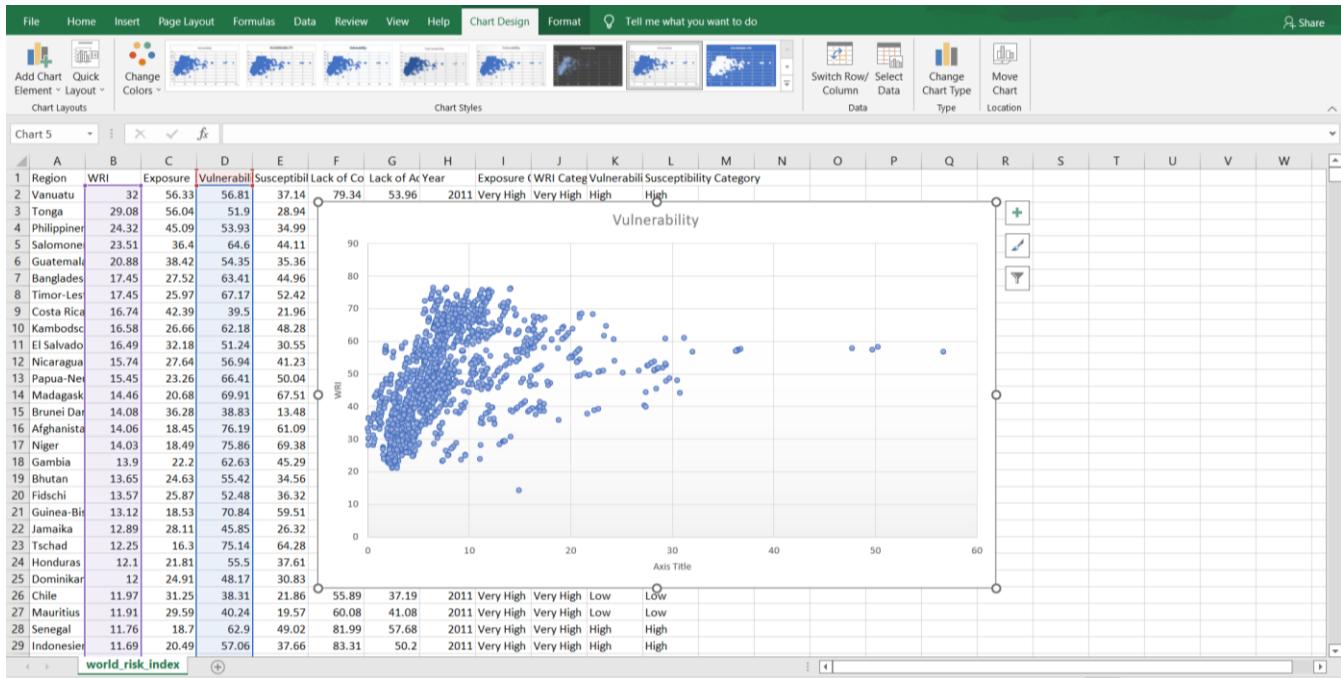


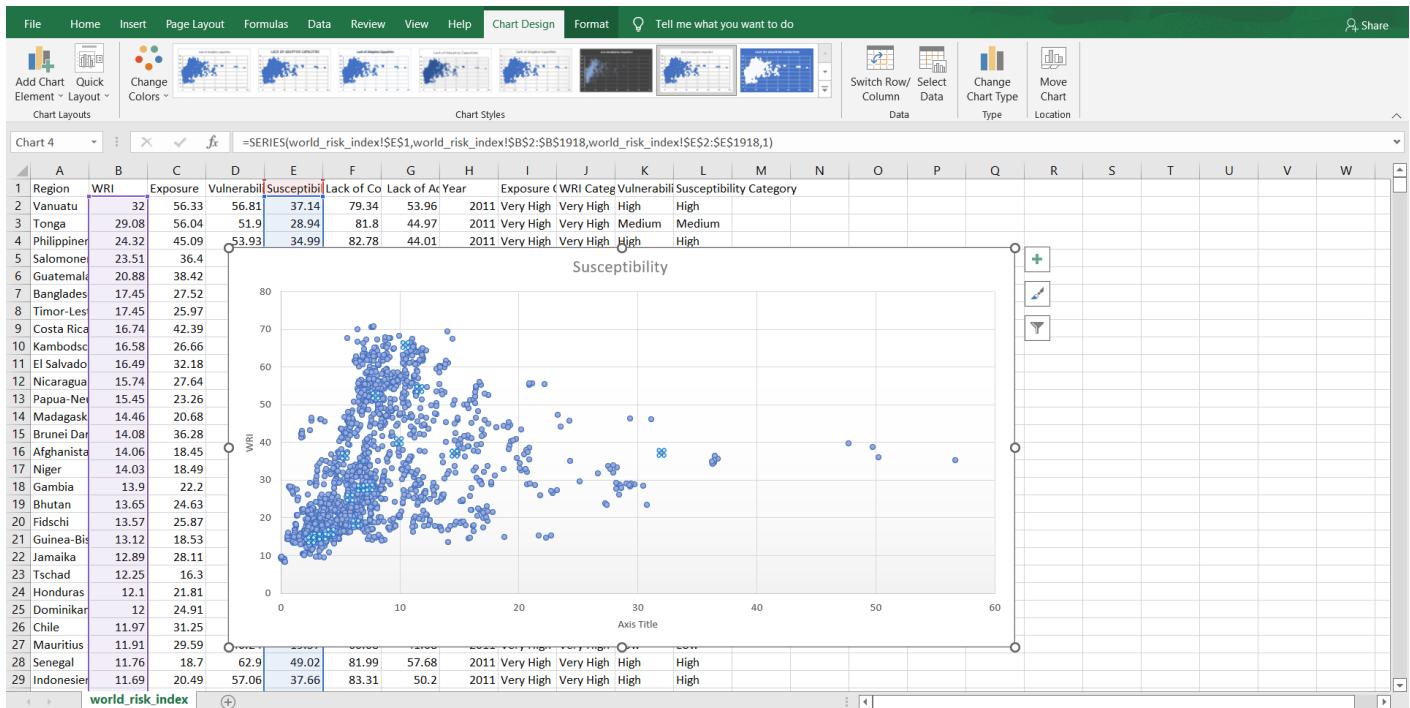
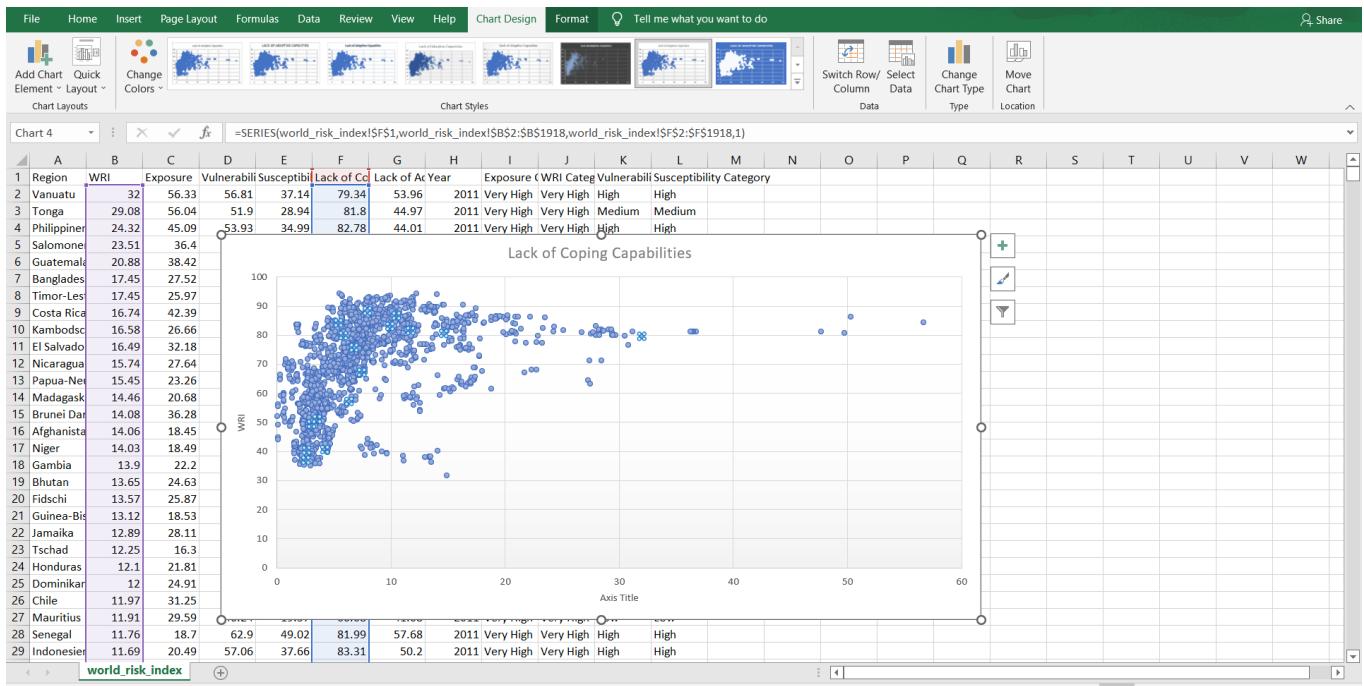
3. Plot a pie chart with components for each category in “WRI Category” based on data of all countries and all the years.



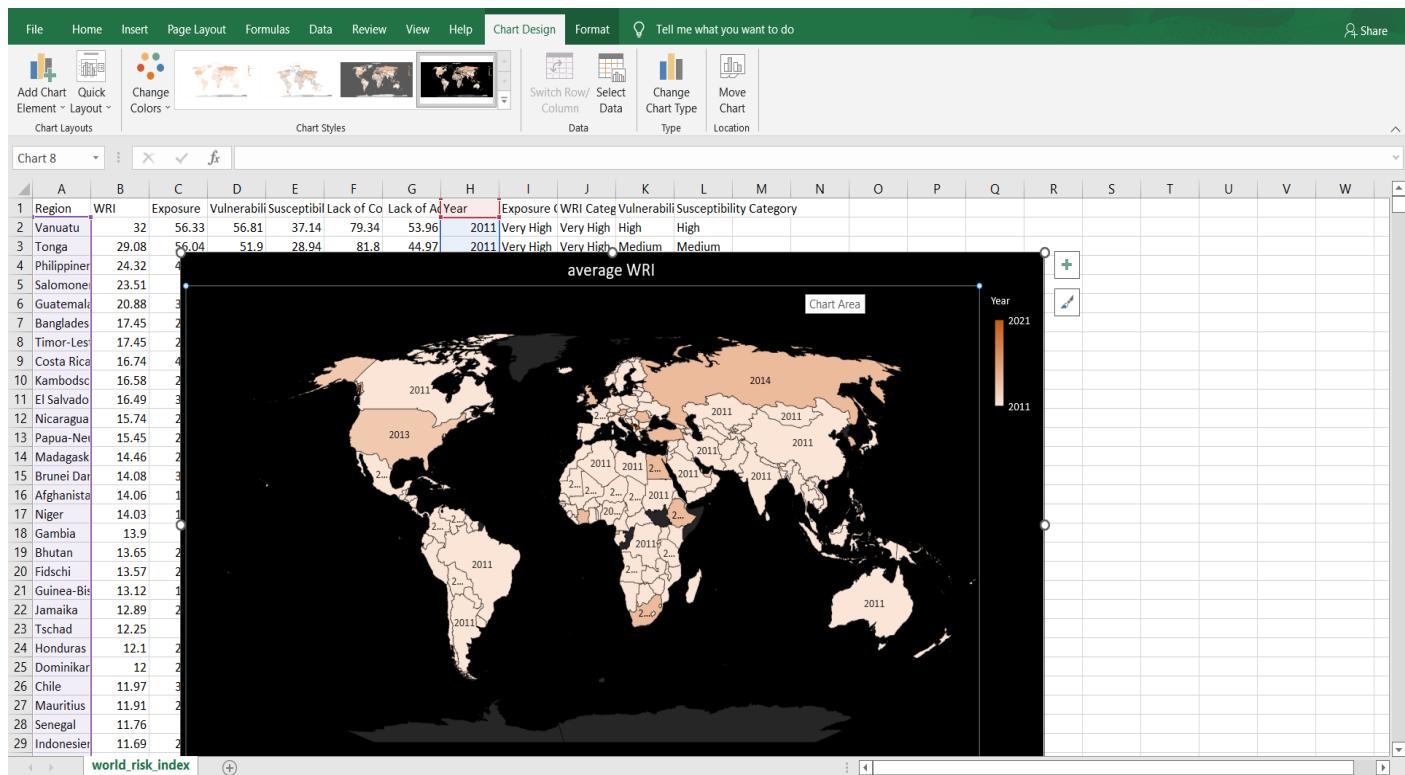
4. plot five scatter plots for the following pairs of features: WRI vs exposure, WRI vs vulnerability, WRI vs susceptibility, WRI vs lack of coping capabilities, WRI vs lack of adaptive capacities. This should tell us the correlation between the features and WRI.



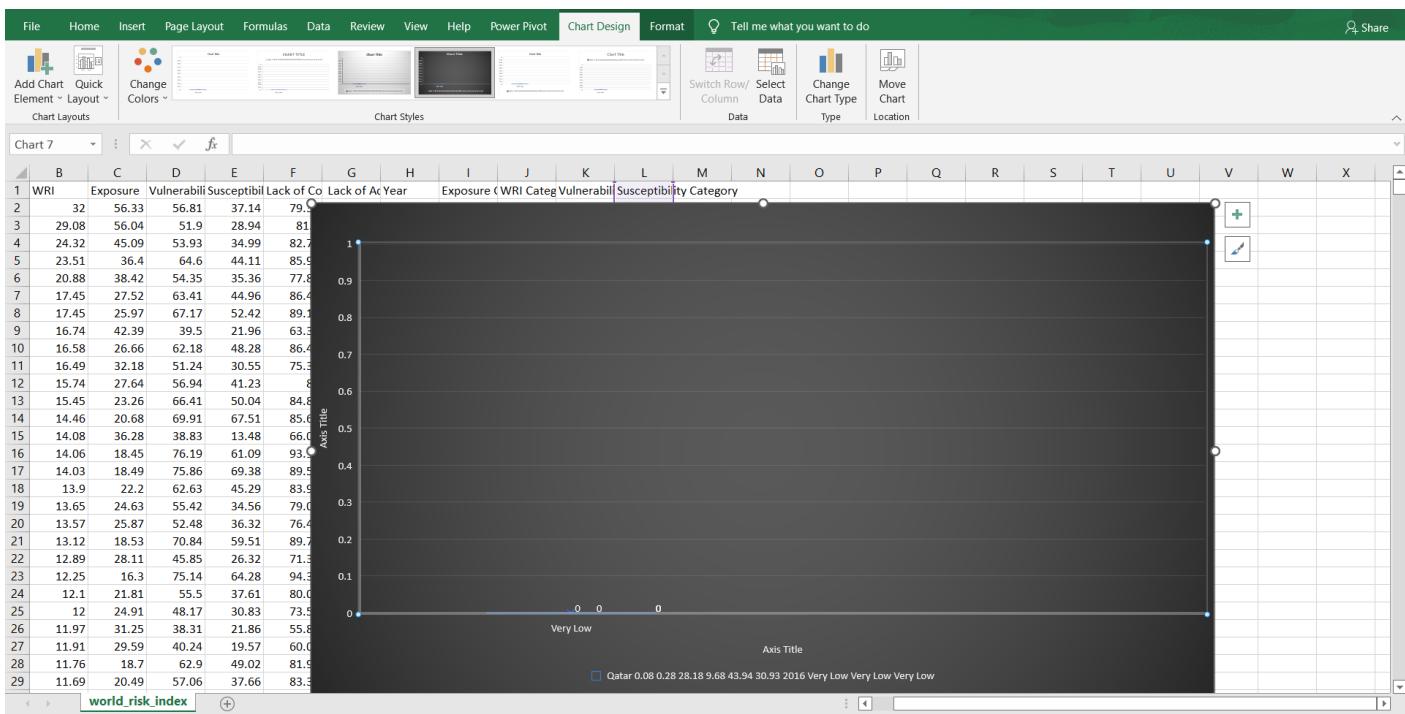


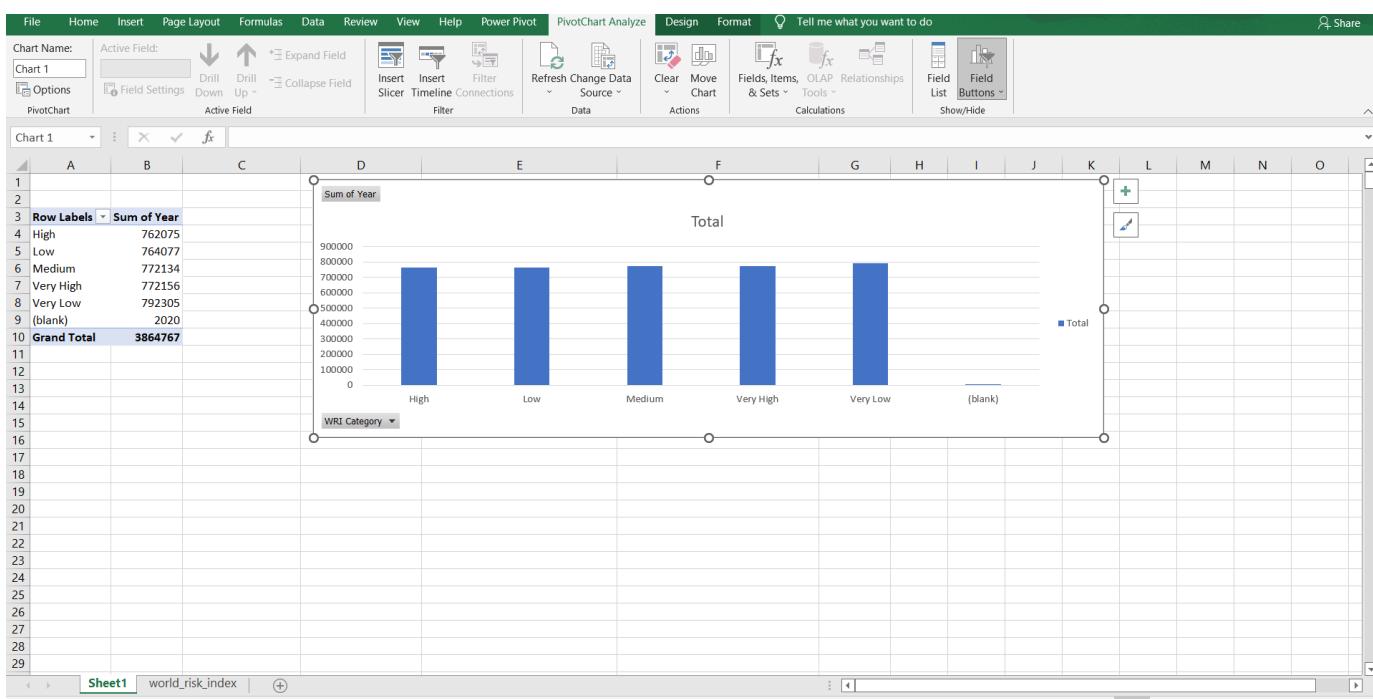
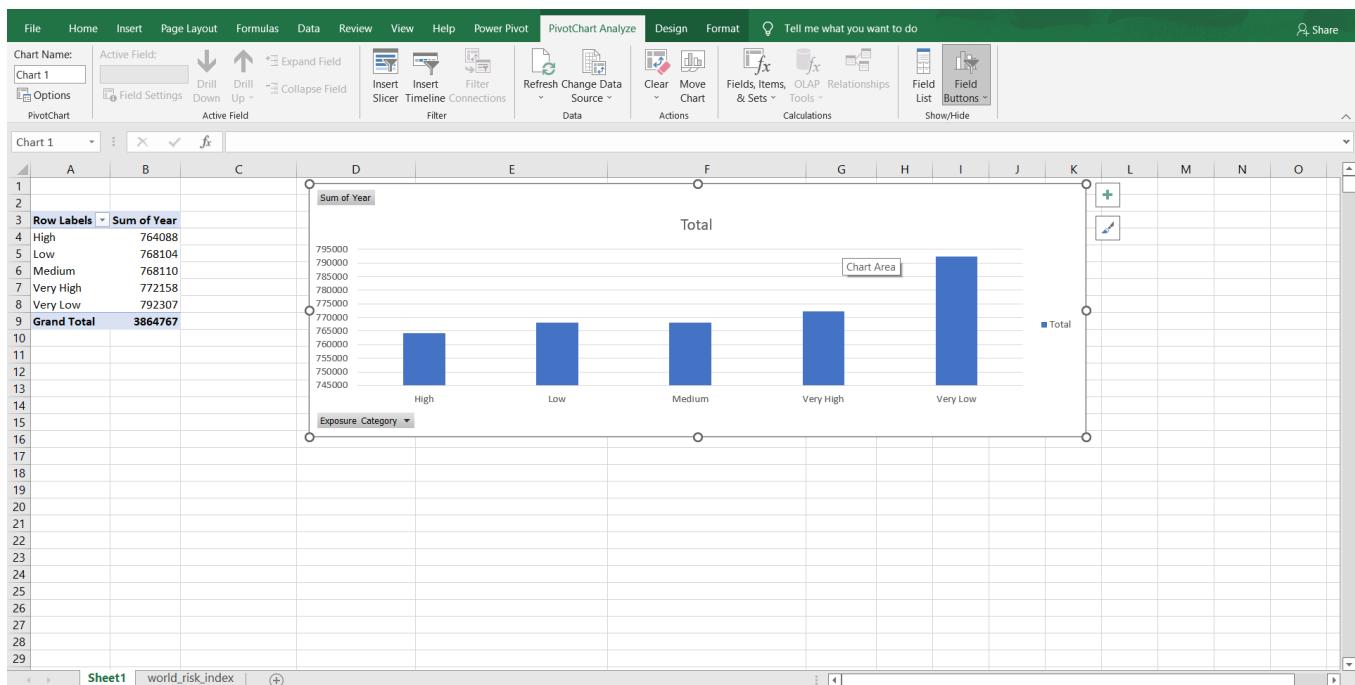


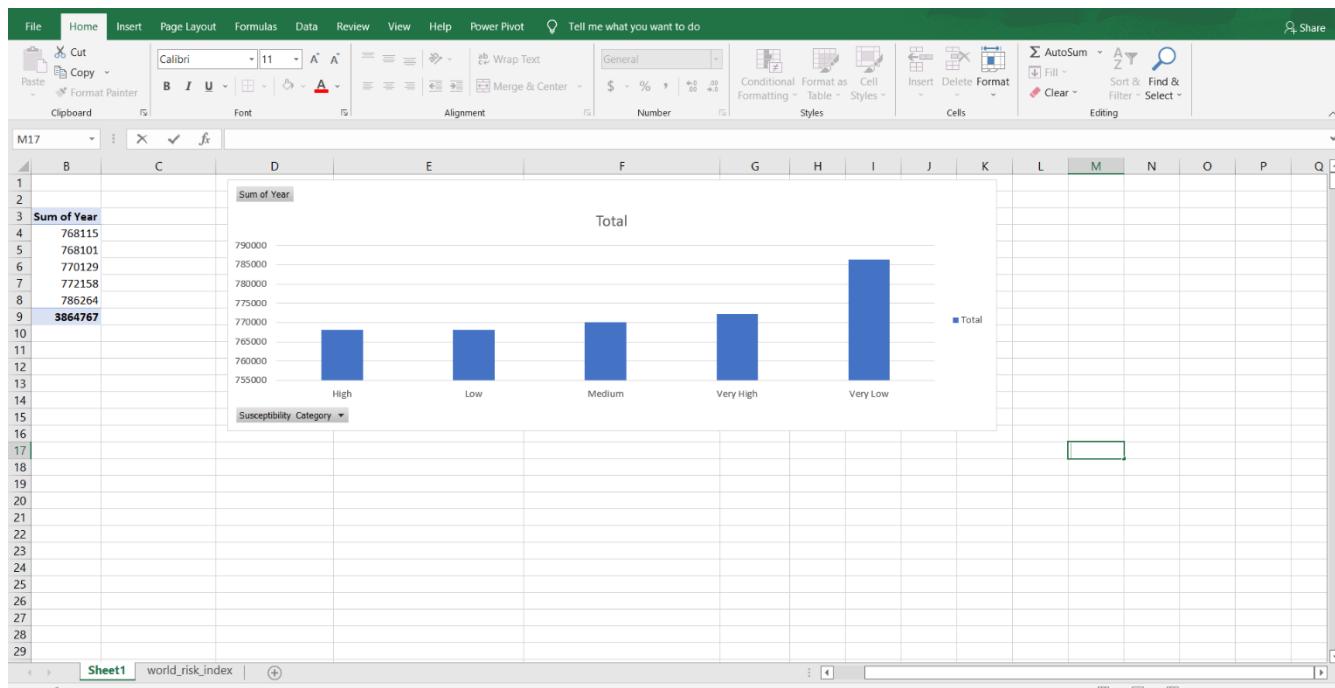
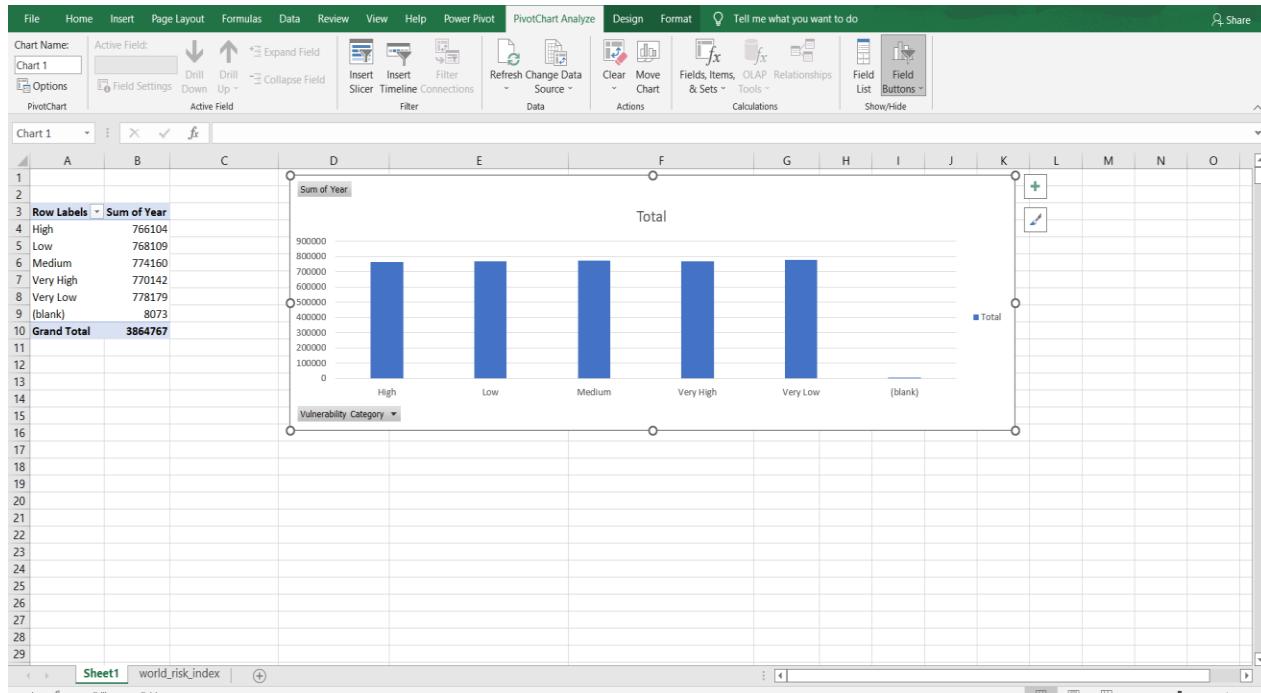
5. Plot a world map plot with all countries and their average WRI over the years.



6. For the year 2020, plot each category in exposure category, WRI category, vulnerability category, susceptibility category as Histogram.



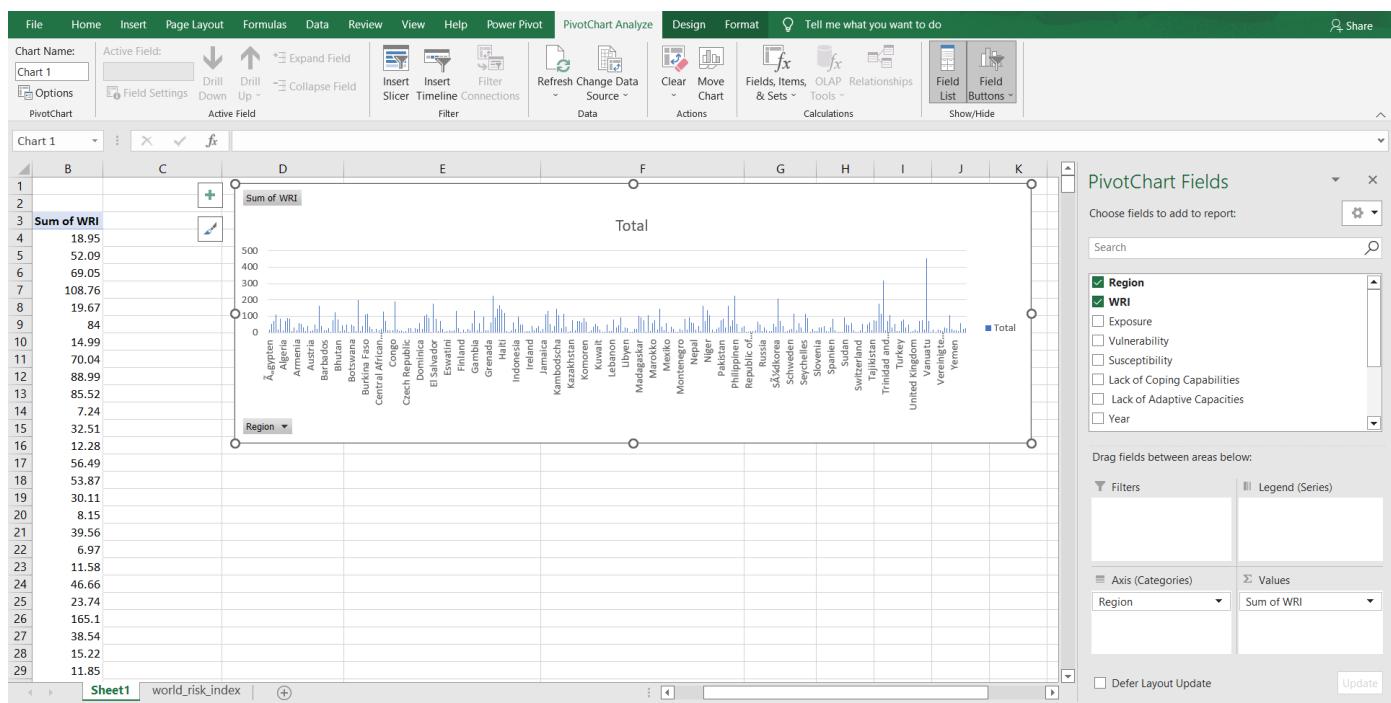


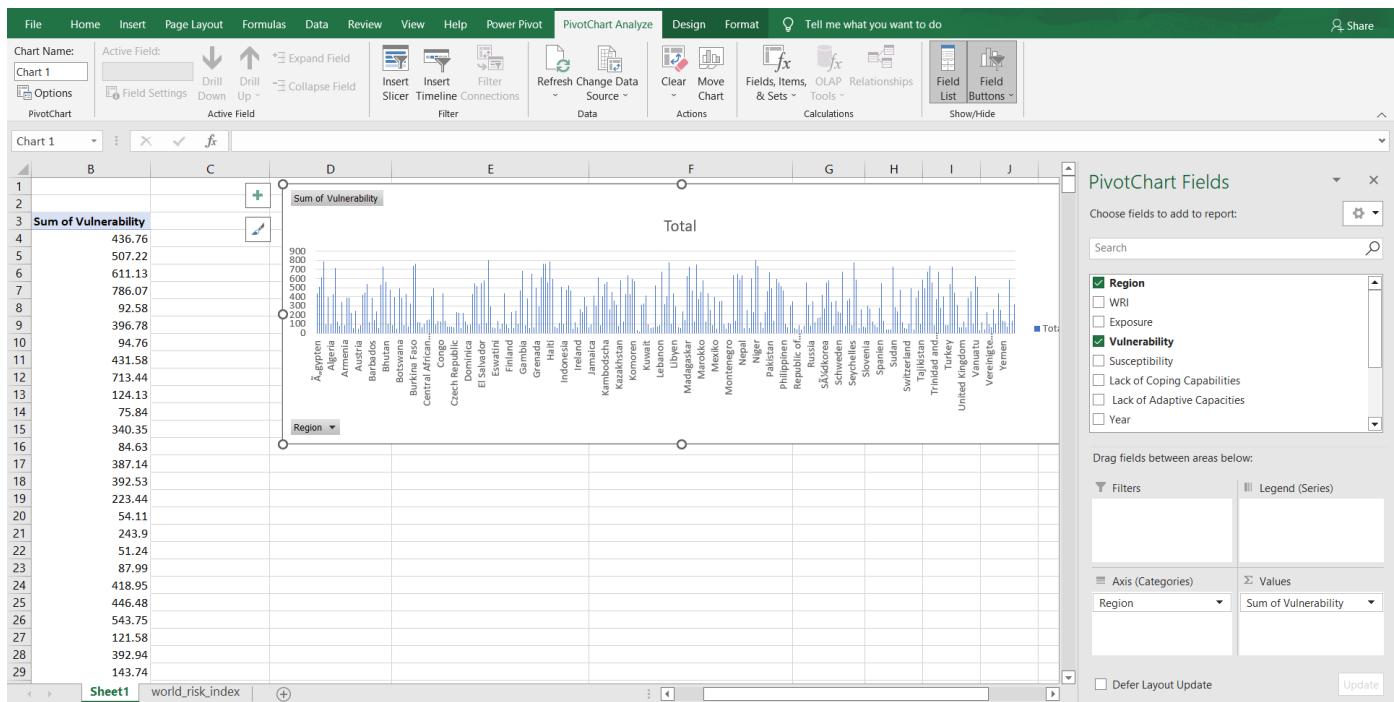
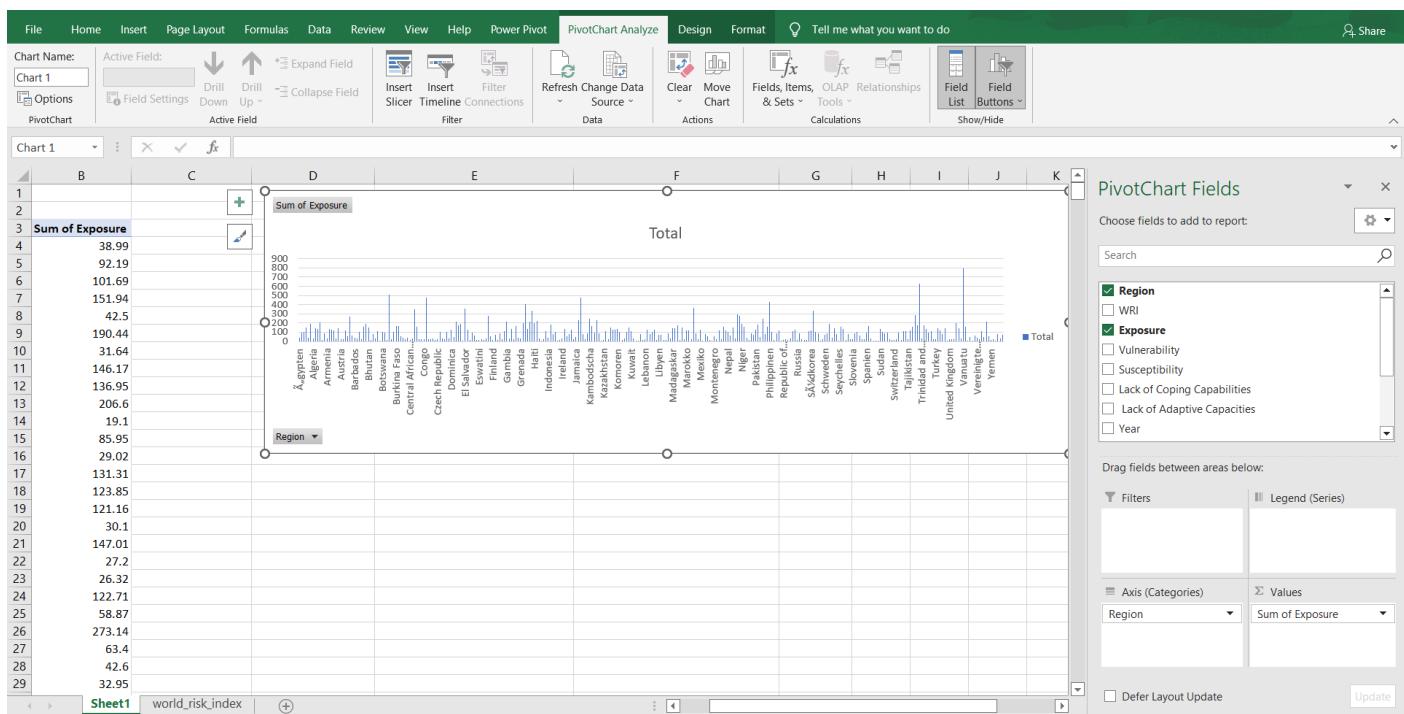


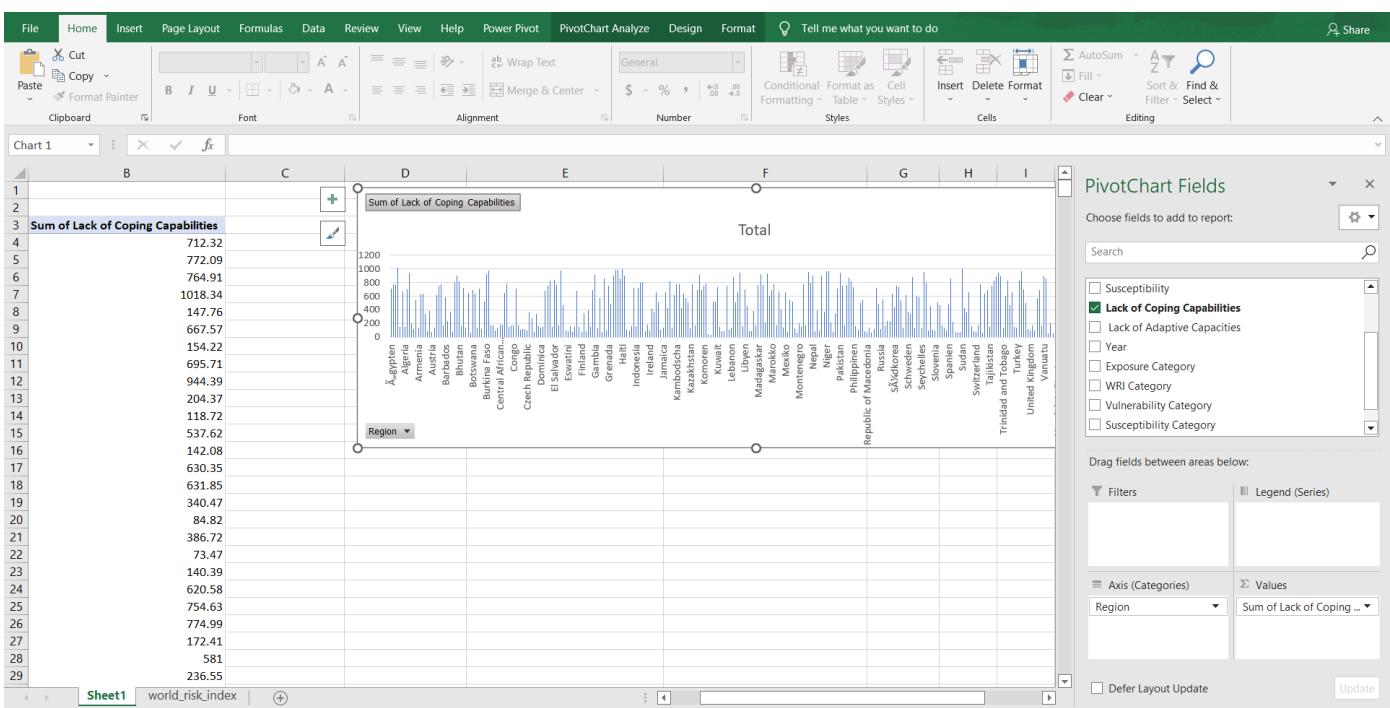
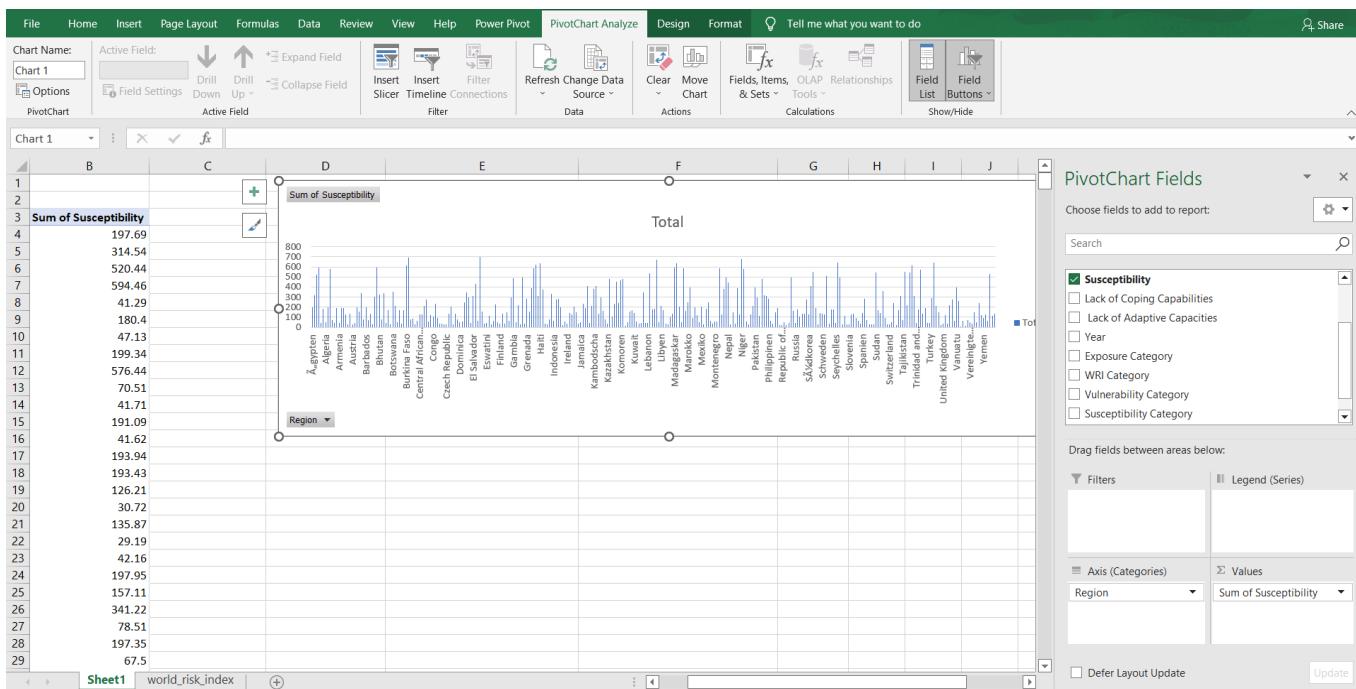
7. Find whether some regions are missing the data for one or more years.

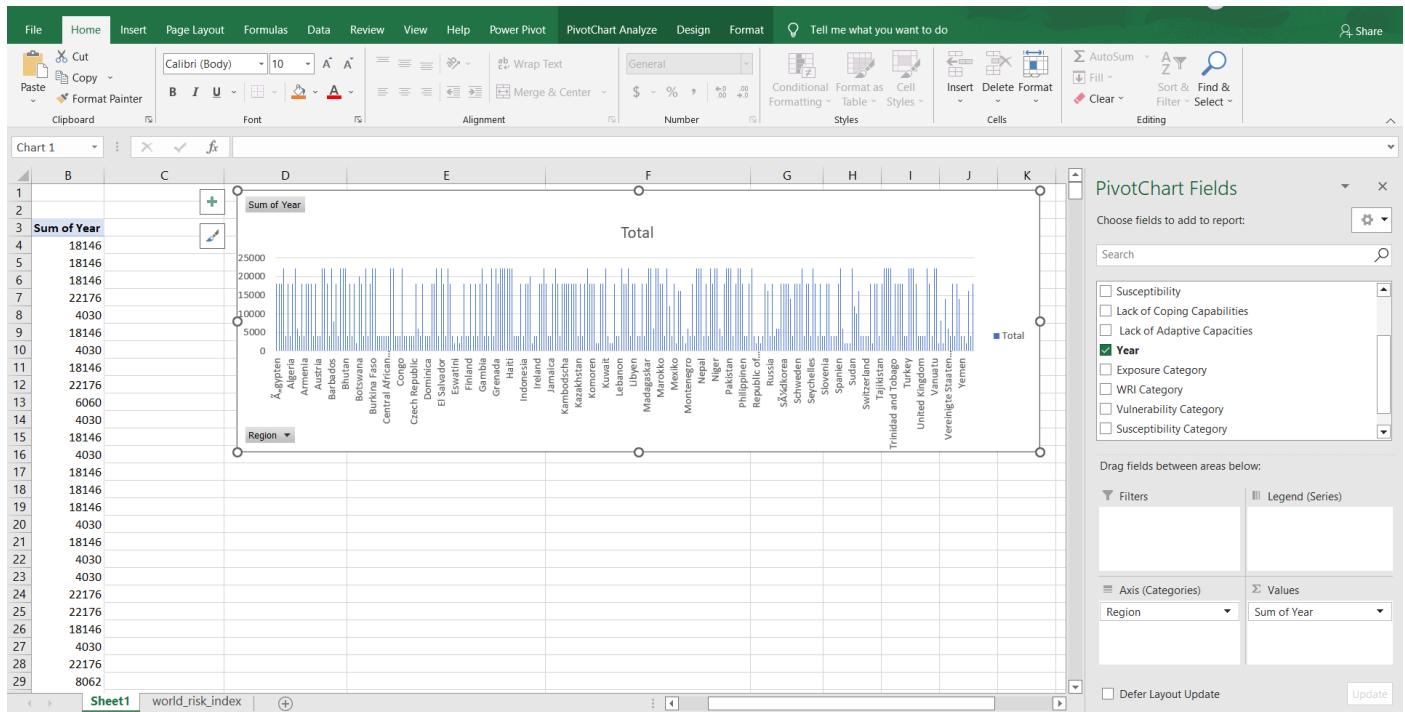
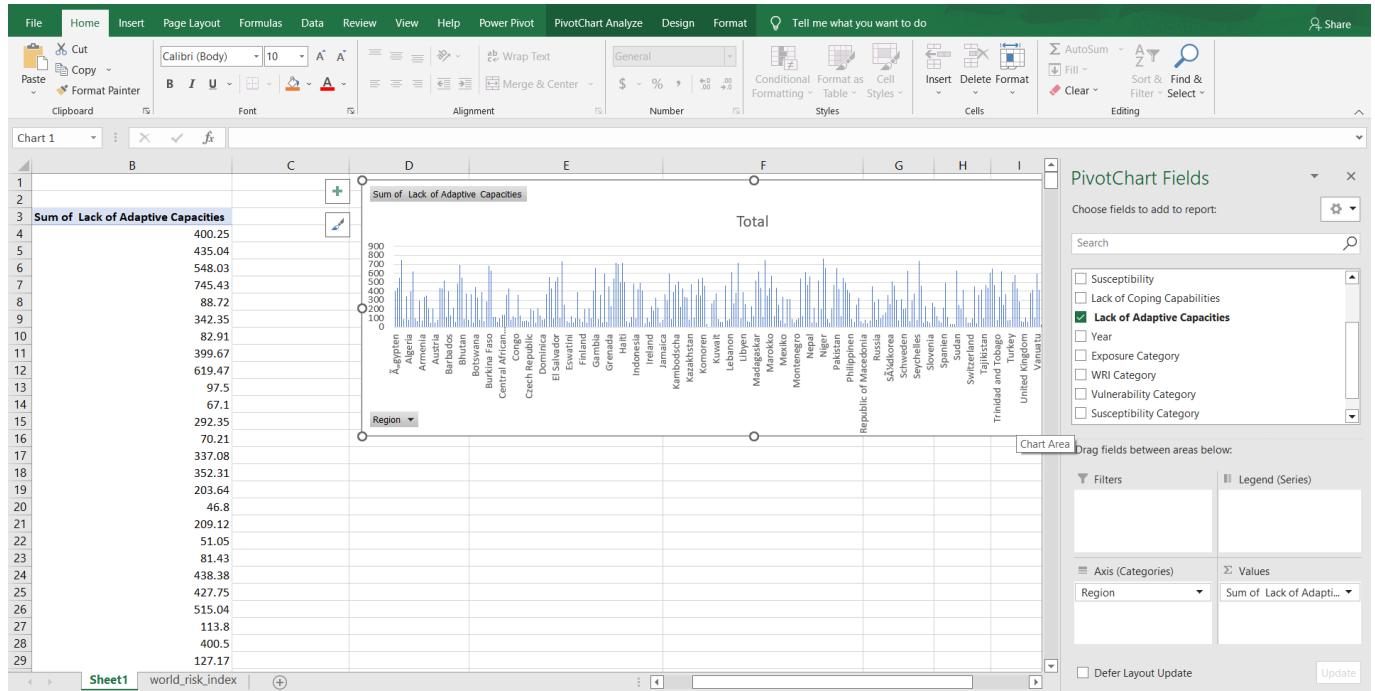
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	Region	WRI	Exposure	Vulnerability	Susceptibility	Lack of Co	Lack of Ad	Year	Exposure C	WRI Categ	Vulnerabilit	Susceptibilit	Category									
2	Ägypten	32	56.33	56.81	37.14	79.34	53.96	2011	Very High	Very High	High	High										
3	Äquatorialguinea	29.08	56.04	51.9	28.94	81.8	44.97	2011	Very High	Very High	Medium	Medium										
4	Äthiopien	24.32	45.09	53.93	34.99	82.78	44.01	2011	Very High	Very High	High	High										
5	Afghanistan	23.51	36.4	64.6	44.11	85.95	63.74	2011	Very High	Very High	Very High	High										
6	Albania	20.88	38.42	54.35	35.36	77.83	49.87	2011	Very High	Very High	High	High										
7	Albanien	17.45	27.52	63.41	44.96	86.49	58.77	2011	Very High	Very High	Very High	High										
8	Algeria	17.45	25.97	67.17	52.42	89.16	59.93	2011	Very High	Very High	Very High	Very High										
9	Algerien	16.74	42.39	39.5	21.96	63.39	33.14	2011	Very High	Very High	Low	Low										
10	Angola	16.58	26.66	62.18	48.28	86.43	51.81	2011	Very High	Very High	High	High										
11	Antigua und Barbuda	16.49	32.18	51.24	30.55	75.35	47.82	2011	Very High	Very High	Medium	Medium										
12	Argentina	15.74	27.64	56.94	41.23	83	46.59	2011	Very High	Very High	High	High										
13	Argentinien	15.45	23.26	66.41	50.04	84.83	64.36	2011	Very High	Very High	Very High	Very High										
14	Armenia	14.46	20.68	69.91	67.51	85.65	56.57	2011	Very High	Very High	Very High	Very High										
15	Armenien	14.08	36.28	38.83	13.48	66.06	36.93	2011	Very High	Very High	Low	Very Low										
16	Aserbaidschan	14.06	18.45	76.19	61.09	93.94	73.55	2011	Very High	Very High	Very High	Very High										
17	Ä-sterreich	14.03	18.49	75.86	69.38	89.54	68.65	2011	Very High	Very High	Very High	Very High										
18		13.9	22.2	62.63	45.29	83.99	58.62	2011	Very High	Very High	High	High										
19	Australien	13.65	24.63	55.42	34.56	79.02	52.67	2011	Very High	Very High	High	High										
20	Austria	13.57	25.87	52.48	36.32	76.44	44.67	2011	Very High	Very High	Medium	High										
21	Azerbaijan	13.12	18.53	70.84	59.51	89.76	63.26	2011	Very High	Very High	Very High	Very High										
22	Bahamas	12.89	28.11	45.85	26.32	71.39	39.83	2011	Very High	Very High	Medium	Medium										
23	Bahrain	12.25	16.3	75.14	64.28	94.36	66.78	2011	High	Very High	Very High	Very High										
24	Bangladesch	12.1	21.81	55.5	37.61	80.03	48.85	2011	Very High	Very High	High	High										
25		12	24.91	48.17	30.83	73.55	40.14	2011	Very High	Very High	Medium	Medium										
26	Barbados	11.97	31.25	38.31	21.86	55.89	37.19	2011	Very High	Very High	Low	Low										
27		11.91	29.59	40.24	19.57	60.08	41.08	2011	Very High	Very High	Low	Low										
28	Belgien	11.76	18.7	62.9	49.02	81.99	57.68	2011	Very High	Very High	High	High										
29	Belgium	11.69	20.49	57.06	37.66	83.31	50.2	2011	Very High	Very High	High	High										

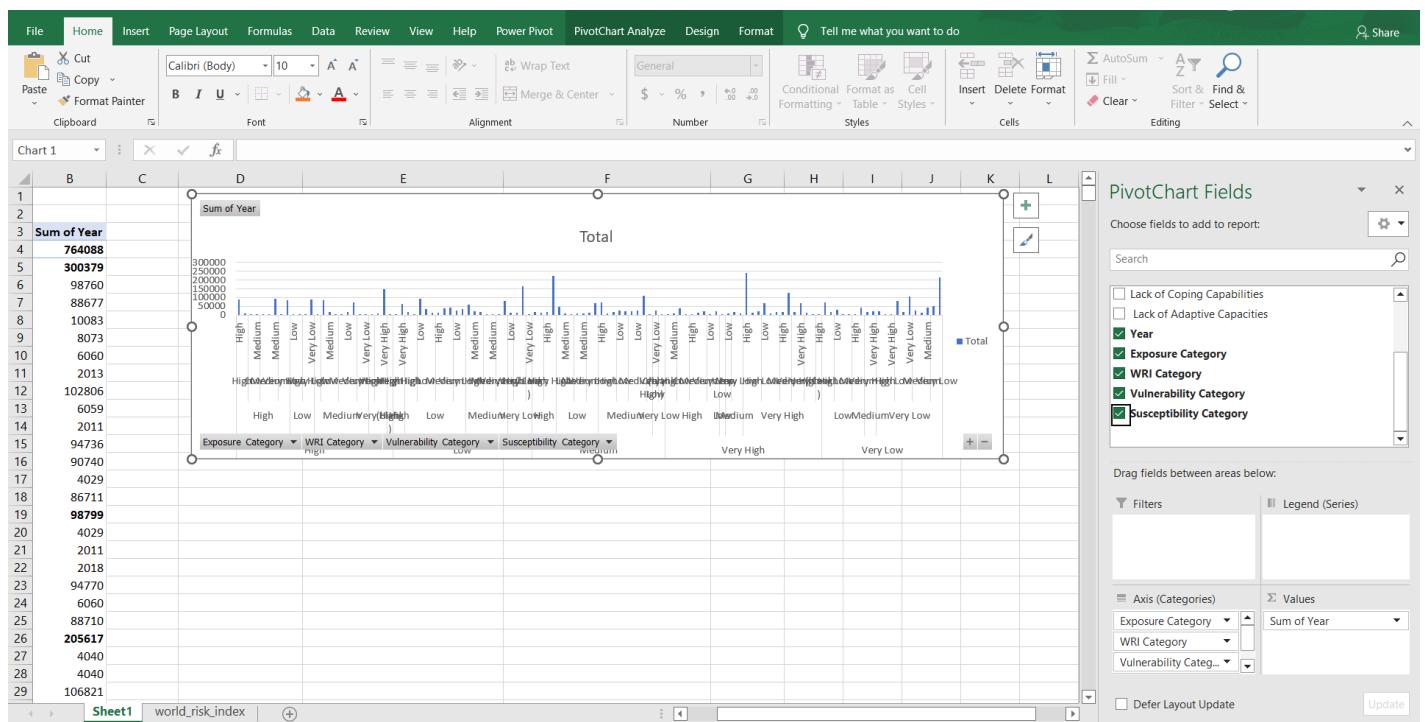
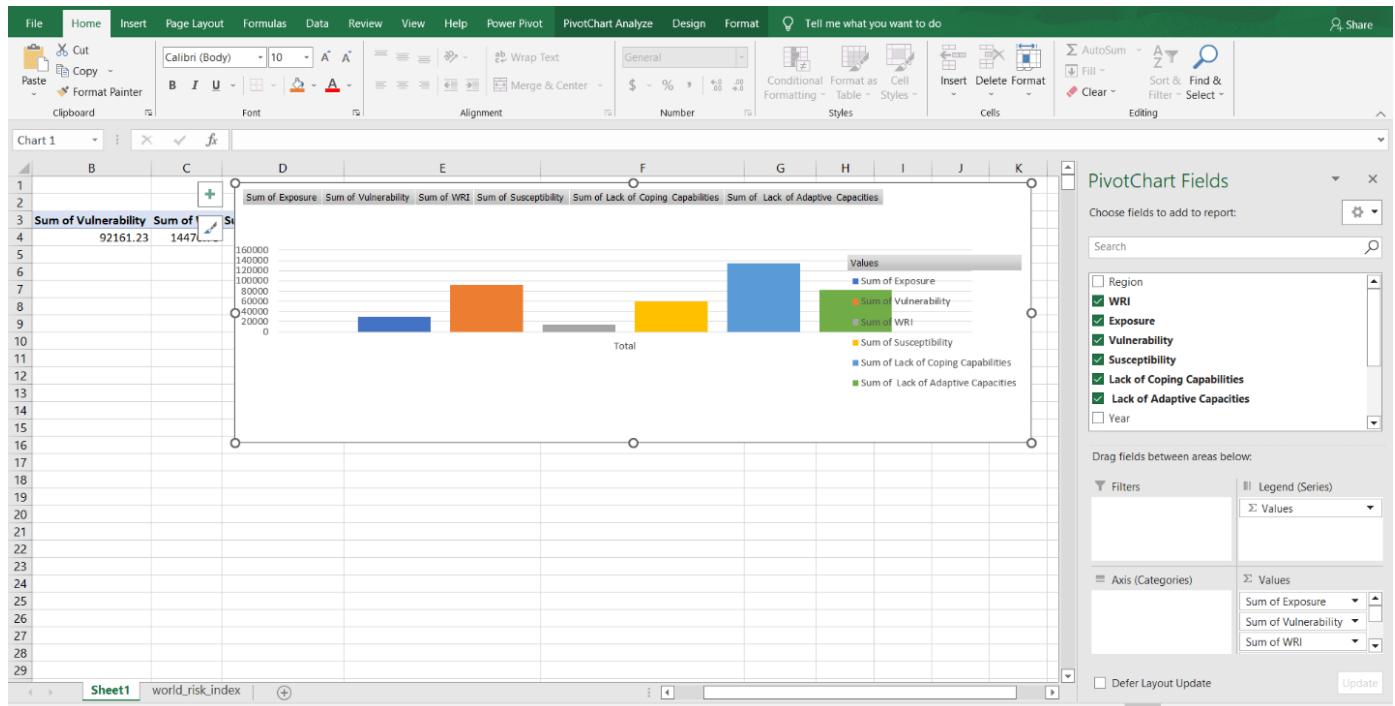
8. Build a pivot table for the data to summarize data in various forms. Try using regions, years, different categories as “rows” or “columns” and rest of the numeric features as “values”. Use years, regions and categories as filters in different cases. Create 8 to 10 different pivot table views as mentioned. Create pivot chart also for each pivot table.

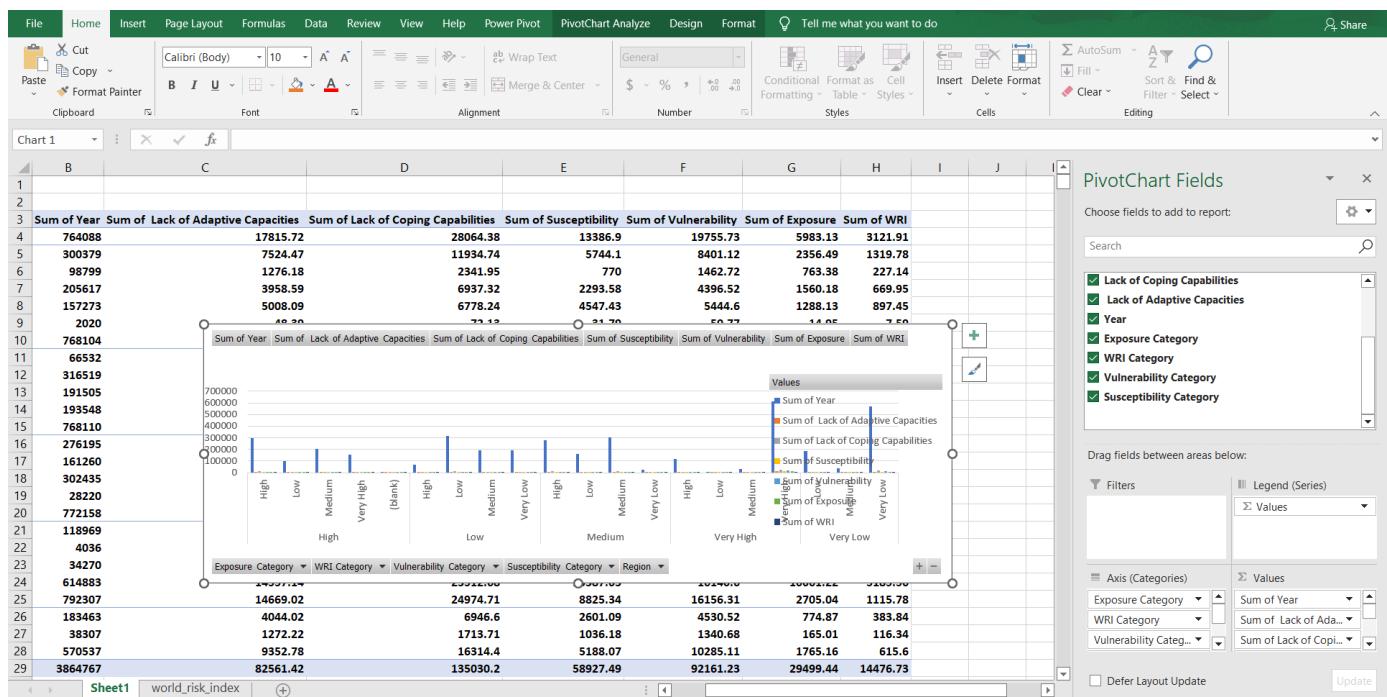




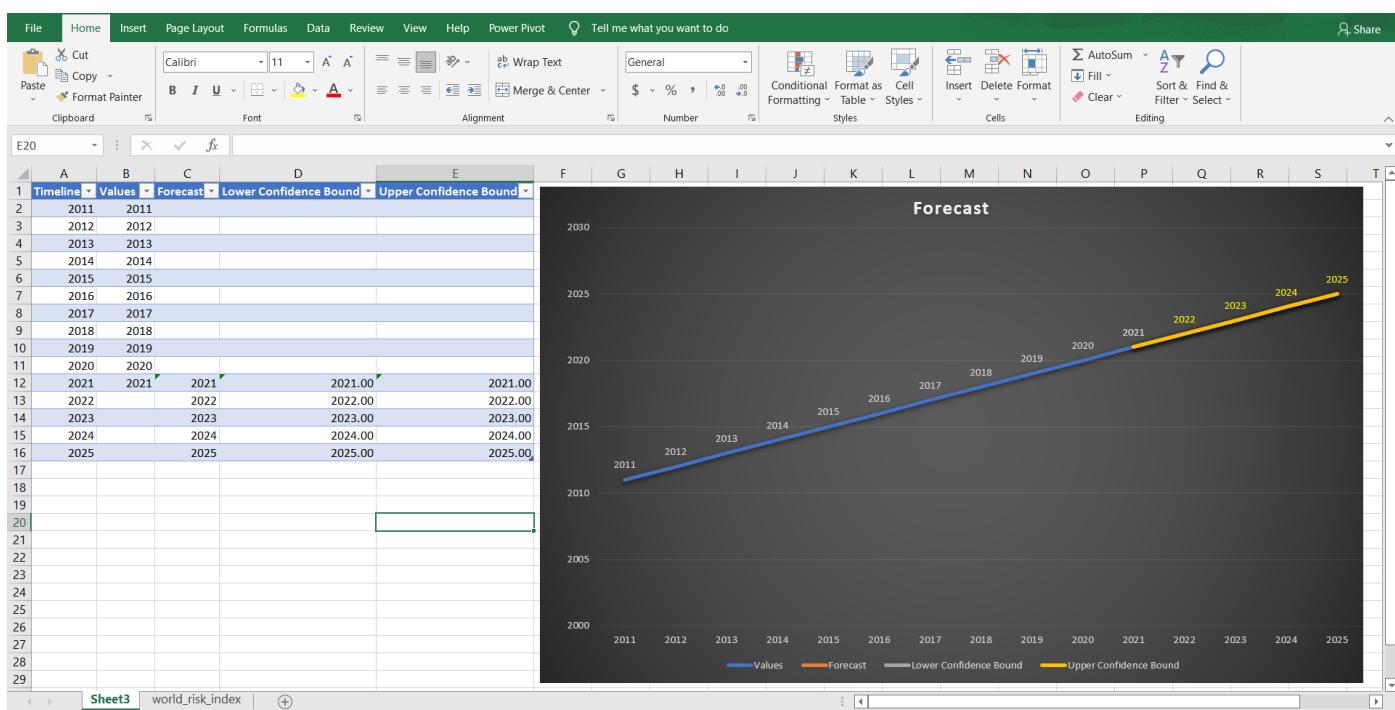








9. Use the “data” tab in excel to perform forecasting using “forecast sheet”. Forecast the numeric features (WRI, exposure, vulnerability, susceptibility, lack of coping capabilities, lack of adaptive capacities) for the coming years 2022 to 2025 for each country. You can use “regression” from data analytics toolpak from “data” tab in excel.



REGRESSION EXPOSURE																
SUMMARY OUTPUT																
<i>Regression Statistics</i>																
Multiple R 0.062133																
R Square 0.003861																
Adjusted R 0.00334																
Standard E 10.22302																
Observatio 1917																
<i>ANOVA</i>																
df																
Regressio 1																
775.6236 775.6236 7.421518 0.006503																
Residual 1915																
200136.8 104.5101																
Total 1916																
<i>Coefficients</i>																
standard Err 147.971 -2.62025 0.008856 -677.922 -97.5194 -677.922 -97.5194																
t Stat -387.721																
P-value 0.000856																
Lower 95% -677.922																
Upper 95% -97.5194																
X Variable 0.19995 0.073396 2.724246 0.006503 0.056005 0.343895 0.056005 0.343895																
1	WRI	Exposure	Vulnerabil	Susceptibil	Lack of Co	Lack of Ac	Year	Exposure	WRI	Categ	Vulnerabil	Susceptibil	Category			
2	32	56.33	56.81	37.14	79.34	53.96	2011	Very High	Very High	High	High					
3	29.08	56.04	51.9	28.94	81.8	44.97	2011	Very High	Very High	Medium	Medium					
4	24.32	45.09	53.93	34.99	82.78	44.01	2011	Very High	Very High	High	High					
5	23.51	36.4	64.6	44.11	85.95	63.74	2011	Very High	Very High	Very High	High					
6	20.88	38.42	54.35	35.36	77.83	49.87	2011	Very High	Very High	High	High					
7	17.45	27.52	63.41	44.96	86.49	58.77	2011	Very High	Very High	Very High	High					
8	17.45	25.97	67.17	52.42	89.16	59.93	2011	Very High	Very High	Very High	Very High					
9	16.74	42.39	39.5	21.96	63.39	33.14	2011	Very High	Very High	Low	Low					
10	16.58	26.66	62.18	48.28	86.43	51.81	2011	Very High	Very High	High	High					
11	16.49	32.18	51.24	30.55	75.35	47.82	2011	Very High	Very High	Medium	Medium					
12	15.74	27.64	56.94	41.23	83	46.59	2011	Very High	Very High	High	High					
13	15.45	23.26	66.41	50.04	84.83	64.36	2011	Very High	Very High	Very High	Very High					
14	14.46	20.68	69.91	67.51	85.65	56.57	2011	Very High	Very High	Very High	Very High					
15	14.08	36.28	38.83	13.48	66.06	36.93	2011	Very High	Very High	Low	Very Low					
16	14.06	18.45	76.19	61.09	93.94	73.55	2011	Very High	Very High	Very High	Very High					
17	14.03	18.49	75.86	69.38	89.54	68.65	2011	Very High	Very High	Very High	Very High					
18	13.9	22.2	62.63	45.29	83.99	58.62	2011	Very High	Very High	High	High					
19	13.65	24.63	55.42	34.56	79.02	52.67	2011	Very High	Very High	High	High					
20	13.57	25.87	52.48	36.32	76.44	44.67	2011	Very High	Very High	Medium	High					
21	13.12	18.53	70.84	59.51	89.76	63.26	2011	Very High	Very High	Very High	Very High					
22	12.89	28.11	45.85	26.32	71.39	39.83	2011	Very High	Very High	Medium	Medium					
23	12.25	16.3	75.14	64.28	94.36	66.78	2011	High	Very High	Very High	Very High					
24	12.1	21.81	55.5	37.61	80.03	48.85	2011	Very High	Very High	High	High					
25	12	24.91	48.17	30.83	73.55	40.14	2011	Very High	Very High	Medium	Medium					
26	11.97	31.25	38.31	21.86	55.89	37.19	2011	Very High	Very High	Low	Low					
27	11.91	29.59	40.24	60.08	41.08	2011	Very High	Very High	Low	Low	Low					
28	11.76	18.7	62.9	49.02	81.99	57.68	2011	Very High	Very High	High	High					
29	11.69	20.49	57.06	37.66	83.31	50.2	2011	Very High	Very High	High	High					

10. Perform “correlation” and “covariance” analysis between numeric features (WRI, exposure, vulnerability, susceptibility, lack of coping capabilities, lack of adaptive capacities) using data analytics toolpak from “data” tab in excel.

	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	Exposure	Vulnerabil	Susceptibil	Lack of Co	Lack of Ad Year	Exposure	WRI	Category	Vulnerabil	Susceptibility	Category		CORRELATION												
2	56.33	56.81	37.14	79.34	53.96	2011	Very High	Very High	High	High			COVARIANCE												
3	56.04	51.9	28.94	81.8	44.97	2011	Very High	Very High	Medium	Medium			Column 1												
4	45.09	53.93	34.99	82.78	44.01	2011	Very High	Very High	High	High			Column 1												
5	36.4	64.6	44.11	85.95	63.74	2011	Very High	Very High	Very High	High			Column 1												
6	38.42	54.35	35.36	77.83	49.87	2011	Very High	Very High	High	High			Column 1												
7	27.52	63.41	44.96	86.49	58.77	2011	Very High	Very High	Very High	High			Column 1												
8	25.97	67.17	52.42	89.16	59.93	2011	Very High	Very High	Very High	Very High			Column 1												
9	42.39	39.5	21.96	63.39	33.14	2011	Very High	Very High	Low	Low			Column 1												
10	26.66	62.18	48.28	86.43	51.81	2011	Very High	Very High	High	High			Column 1												
11	32.18	51.24	30.55	75.35	47.82	2011	Very High	Very High	Medium	Medium			Column 1												
12	27.64	56.94	41.23	83	46.59	2011	Very High	Very High	High	High			Column 1												
13	23.26	66.41	50.04	84.83	64.36	2011	Very High	Very High	Very High	Very High			Column 1												
14	20.68	69.91	67.51	85.65	56.57	2011	Very High	Very High	Very High	Very High			Column 1												
15	36.28	38.83	13.48	66.06	36.93	2011	Very High	Very High	Low	Very Low			Column 1												
16	18.45	76.19	61.09	93.94	73.55	2011	Very High	Very High	Very High	Very High			Column 1												
17	18.49	75.86	69.38	89.54	68.65	2011	Very High	Very High	Very High	Very High			Column 1												
18	22.2	62.63	45.29	83.99	58.62	2011	Very High	Very High	High	High			Column 1												
19	24.63	55.42	34.56	79.02	52.67	2011	Very High	Very High	High	High			Column 1												
20	25.87	52.48	36.32	76.44	44.67	2011	Very High	Very High	Medium	High			Column 1												
21	18.53	70.84	59.51	89.76	63.26	2011	Very High	Very High	Very High	Very High			Column 1												
22	28.11	45.85	26.32	71.39	39.83	2011	Very High	Very High	Medium	Medium			Column 1												
23	16.3	75.14	64.28	94.36	66.78	2011	High	Very High	Very High	Very High			Column 1												
24	21.81	55.5	37.61	80.03	48.85	2011	Very High	Very High	High	High			Column 1												
25	24.91	48.17	30.83	73.55	40.14	2011	Very High	Very High	Medium	Medium			Column 1												
26	31.25	38.31	21.86	55.89	37.19	2011	Very High	Very High	Low	Low			Column 1												
27	29.59	40.24	19.57	60.08	41.08	2011	Very High	Very High	Low	Low			Column 1												
28	18.7	62.9	49.02	81.99	57.68	2011	Very High	Very High	High	High			Column 1												
29	20.49	57.06	37.66	83.31	50.2	2011	Very High	Very High	High	High			Column 1												

11. Perform “descriptive statistics” on numeric features (WRI, exposure, vulnerability, susceptibility, lack of coping capabilities, lack of adaptive capacities) using data analytics toolpak from “data” tab in excel.

Excel Data Analysis Tab

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Tell me what you want to do

From Text/CSV From Web Existing Connections Refresh All Edit Links Sort Filter Advanced Text to Columns Data Validation Manage Data Model Flash Fill Consolidate Remove Duplicates Relationships What-If Forecast Analysis Sheet Group Ungroup Subtotal Forecast Outline Analysis

Get & Transform Data Queries & Connections Sort & Filter Data Tools Forecast Outline Analysis

Q25 B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1 WRI Exposure Vulnerabil Susceptibl Lack of Co Year Exposure WRI Categ Vulnerabil Susceptibility Category

2 32 56.33 56.81 37.14 79.34 53.96 2011 Very High Very High High High

3 29.08 56.04 51.9 28.94 81.8 44.97 2011 Very High Very High Medium Medium

4 24.32 45.09 53.93 34.99 82.78 44.01 2011 Very High Very High High High

5 23.51 36.4 64.6 44.11 85.95 63.74 2011 Very High Very High Very High High

6 20.88 38.42 54.35 35.36 77.83 49.87 2011 Very High Very High High High

7 17.45 27.52 63.41 44.96 86.49 58.77 2011 Very High Very High Very High High

8 17.45 25.97 67.17 52.42 89.16 59.93 2011 Very High Very High Very High Very High

9 16.74 42.39 39.5 21.96 63.39 33.14 2011 Very High Very High Low Low

10 16.58 26.66 62.18 48.28 86.43 51.81 2011 Very High Very High High High

11 16.49 32.18 51.24 30.55 75.35 47.82 2011 Very High Very High Medium Medium

12 15.74 27.64 56.94 41.23 83 46.59 2011 Very High Very High High High

13 15.45 23.26 66.41 50.04 84.83 64.36 2011 Very High Very High Very High Very High

14 14.46 20.68 69.91 67.51 85.65 56.57 2011 Very High Very High Very High Very High

15 14.08 36.28 38.83 13.48 66.06 36.93 2011 Very High Very High Low Very Low

16 14.06 18.45 76.19 61.09 93.94 73.55 2011 Very High Very High Very High Very High

17 14.03 18.49 75.86 69.38 89.54 68.65 2011 Very High Very High Very High Very High

18 13.9 22.2 62.63 45.29 83.99 58.62 2011 Very High Very High High High

19 13.65 24.63 55.42 34.56 79.02 52.67 2011 Very High Very High High High

20 13.57 25.87 52.48 36.32 76.44 44.67 2011 Very High Very High Medium High

21 13.12 18.53 70.84 59.51 89.76 63.26 2011 Very High Very High Very High Very High

22 12.89 28.11 45.85 26.32 71.39 39.83 2011 Very High Very High Medium Medium

23 12.25 16.3 75.14 64.28 94.36 66.78 2011 High Very High Very High Very High

24 12.1 21.81 55.5 37.61 80.03 48.85 2011 Very High Very High High High

25 12 24.91 48.17 30.83 73.55 40.14 2011 Very High Very High Medium Medium

26 11.97 31.25 38.31 21.86 55.89 37.19 2011 Very High Very High Low Low

27 11.91 29.59 40.24 19.57 60.08 41.08 2011 Very High Very High Low Low

28 11.76 18.7 62.9 49.02 81.99 57.68 2011 Very High Very High High High

29 11.69 20.49 57.06 37.66 83.31 50.2 2011 Very High Very High High High

Mean 7.552 Mean 15.39 Mean 48.08 Mean 30.7 Mean 70.44 Mean 43.091
 Standard 0.127 Standard 0.234 Standard 0.316 Standard 0.36 Standard 0.343 Standard 0.3096
 Median 6.52 Median 12.76 Median 47.1 Median 25.4 Median 74.23 Median 43.08
 Mode 3.56 Mode 12.25 Mode 26.98 Mode 17.3 Mode 81.8 Mode 38.17
 Standard 5.553 Standard 10.24 Standard 13.84 Standard 15.7 Standard 15.04 Standard 13.551
 Sample 30.84 Sample 104.9 Sample 191.4 Sample 245 Sample 226.2 Sample 183.63
 Kurtosis 11.8 Kurtosis 10.9 Kurtosis -1.015 Kurtosis -0.678 Kurtosis -0.653
 Skewness 2.58 Skewness 2.757 Skewness 0.101 Skewness 0.78 Skewness -0.614 Skewness -0.0222
 Range 56.69 Range 99.83 Range 62.16 Range 62.77 Range 64.95
 Minimum 0.02 Minimum 0.05 Minimum 14.31 Minimum 8.26 Minimum 31.59 Minimum 11.16
 Maximum 56.71 Maximum 99.88 Maximum 76.47 Maximum 70.8 Maximum 94.36 Maximum 76.11
 Sum 14477 Sum 29499 Sum 92161 Sum 589 Sum 1E+05 Sum 82561
 Count 1917 Count 1917 Count 1917 Count 1917 Count 1917 Count 1916
 Largest 56.71 Largest 99.88 Largest 76.47 Largest 70.8 Largest 94.36 Largest 76.11
 Smallest 0.02 Smallest 0.05 Smallest 14.31 Smallest 8.26 Smallest 31.59 Smallest 11.16
 Confidence 0.249 Confidence 0.459 Confidence 0.62 Confidence 0.7 Confidence 0.674 Confidence 0.6072

12. Form a null hypothesis like “WRI of Russia and united states are same” and use the hypothesis testing feature in data analytics toolpak from “data” tab in excel.

Excel Data Analysis Tab

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Tell me what you want to do

Cut Copy Format Painter Font Alignment Number Styles Cells Editing

T645 A B C D E F G H I J K L M N O P Q R S T U V W

1 Region WRI Exposure Vulnerabil Susceptibl Lack of Co Year Exposure WRI Categ Vulnerabil Susceptibility Category

645 United Sta 3.88 12.25 31.67 16.47 48.57 29.98 2014 Medium Low Very Low Very Low

646 Russia 3.85 9.38 41.05 21.59 58.8 42.76 2014 Low Low Low Low

1874 United Sta 3.76 12.25 30.68 16.35 48.24 27.46 2016 Medium Low Very Low Very Low

1875 Russia 3.58 9.38 38.15 21.53 59.12 33.81 2016 Low Low Low Medium

1919

1920

1921

1922

1923 variance num

1924 WRI VAR 33.62198

1925 EXP VAR 116.4465

z-Test: Two Sample for Means t-Test: Paired Two Sample for Means F-Test Two-Sample for Variances Anova: Single Factor

Variable 1 Variable 2 Variable 1 Variable 2 Variable 1 Variable 2

Mean 7.614858 15.68776 Mean 7.614858 15.68776 Mean 7.614858 15.68776

Known Vari 33.62198 116.4465 Variance 33.62198 116.4465 Variance 33.62198 116.4465

Observat 1231 1231 Observat 1231 1231 Observat 1231 1231

Hypothesi 0 Pearson C 0.920903 df 1230 1230 F 0.288733

z -23.1214 P(Z<=z) on 0 df 1230 P(F<=f) on 0

P(Z<=z) tw 0 t Stat -47.9973 F Critical o 0.910431

P(T<t) on 1.9E-284 t Critical o 1.646093

P(T<t) tw 3.8E-284 t Critical t 1.959964

P(T<t) tw 3.8E-284 t Critical t 1.961895

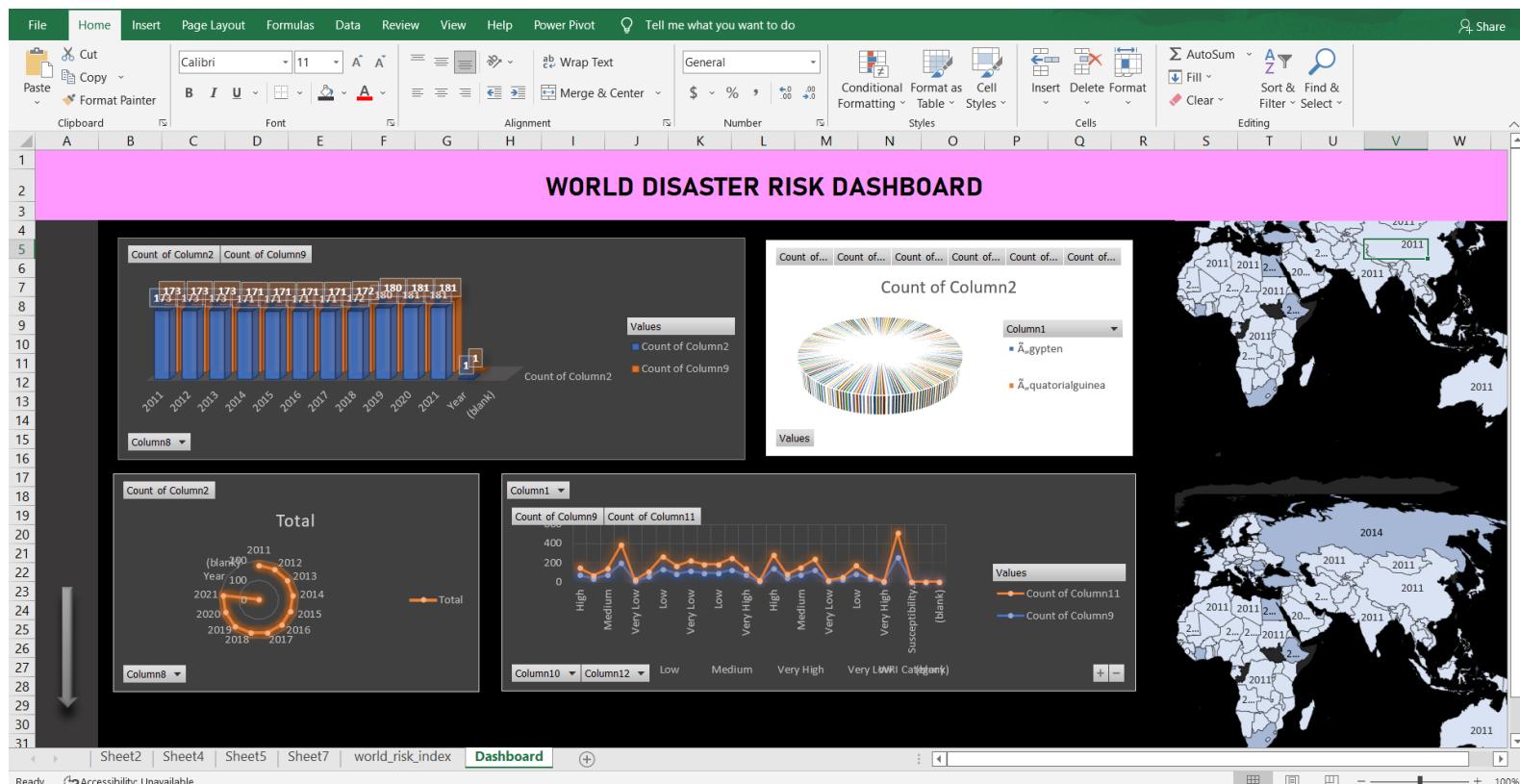
SUMMARY

Groups	Count	Sum	Average	Variance
Column 1	1231	9373.89	7.614858	33.62198
Column 2	1231	19311.63	15.68776	116.4465
Column 3	1231	58492.22	47.51602	192.9232
Column 4	1231	37302.66	30.30273	240.4252
Column 5	1231	87076.73	70.73658	222.0342
Column 6	1230	51132.47	41.57111	197.3407

ANOVA

Source of Varia	SS	df	MS	F	P-value	F crit
Between G	3225118	5	645023.7	3859.462	0	2.215311
Within Gr	1233236	7379	167.1279			
Total	4458355	7384				

Project Dashboard:



Region	WRI	Exposure	Vulnerability	Susceptibility	Lack of Copi	Aida Year	Exposure Ca	WRI Category	Vulnerability / Susceptibility	Category
1	Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9	Column10
2	Region	WRI	Exposure	Vulnerability	Susceptibility	Lack of Copi	Aida Year	Exposure Ca	WRI Category	Vulnerability / Susceptibility
3	Venezuela	32	56.33	56.81	73.34	79.34	53.96	2011	Very High	High
4	Tonga	29.08	56.04	51.9	28.94	81.8	44.97	2011	Very High	Medium
5	Philippines	24.32	45.09	53.93	34.99	82.78	44.01	2011	Very High	High
6	Salomonen	23.51	36.4	64.6	44.11	85.95	63.74	2011	Very High	Very High
7	Guatemala	20.88	38.42	54.35	35.36	77.83	49.87	2011	Very High	High
8	Bangladesch	17.45	27.52	63.41	44.96	86.49	58.77	2011	Very High	Very High
9	Timor-Leste	17.45	25.97	67.17	52.42	89.16	59.93	2011	Very High	Very High
10	Costa Rica	16.74	42.39	39.5	21.96	63.39	33.14	2011	Very High	Low
11	Kambodschia	16.58	26.66	62.18	48.28	86.43	51.81	2011	Very High	High
12	El Salvador	16.49	32.18	51.24	30.55	75.35	47.82	2011	Very High	Medium
13	Nicaragua	15.74	27.64	56.94	41.23	83	46.59	2011	Very High	High
14	Papua-Neug	15.45	23.26	66.41	50.08	88.83	64.36	2011	Very High	Very High
15	Madagaskar	14.46	20.68	69.91	67.51	85.65	56.57	2011	Very High	Very High
16	Brunet Daru	14.08	36.28	38.83	13.48	66.06	36.93	2011	Very High	Very Low
17	Afghanistan	14.06	18.45	76.19	61.09	93.94	73.55	2011	Very High	Very High
18	Niger	14.03	18.49	75.86	69.38	89.54	68.65	2011	Very High	Very High
19	Gambia	13.9	22.2	62.63	45.29	83.99	58.62	2011	Very High	High
20	Bhutan	13.65	24.63	55.42	34.56	79.02	52.67	2011	Very High	High
21	Fidschi	13.57	25.87	52.48	36.32	76.44	44.67	2011	Very High	Medium
22	Guinea-Bissau	13.12	18.53	70.7	59.51	89.76	63.26	2011	Very High	Very High
23	Jamaika	12.89	28.11	45.85	26.32	71.39	39.83	2011	Very High	Medium
24	Tschad	12.25	16.3	75.14	64.28	94.36	66.78	2011	High	Very High
25	Honduras	12.1	21.81	55.5	37.61	80.03	48.85	2011	Very High	High
26	Dominikanis	12	24.91	48.17	30.83	73.55	40.14	2011	Very High	Medium
27	Chile	11.97	31.25	38.31	21.86	55.89	37.19	2011	Very High	Low
28	Mauritius	11.91	29.59	40.24	19.57	60.08	41.08	2011	Very High	Low
29	Senegal	11.76	18.7	62.9	49.02	81.99	57.68	2011	Very High	High
30	Indonesien	11.69	20.49	57.06	37.66	83.31	50.2	2011	Very High	High
31	Burkina Faso	11.58	16.92	68.46	56.92	86.37	62.09	2011	High	Very High

Tools used: Microsoft excel

Outcomes: Reports with tables and graphs